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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,028	06/22/2005	Etsuko Kadowaki	Q73675	8868
23373 7590 04/29/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			MULCAHY, PETER D	
SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER	
,			1796	
			MAIL DATE	DELIVERY MODE
			04/29/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/540.028 KADOWAKI ET AL. Office Action Summary Examiner Art Unit Peter D. Mulcahy 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 06 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.12-23 and 26-30 is/are pending in the application. 4a) Of the above claim(s) 1.12-15.23.26 and 27 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 16-22 and 28-30 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______.

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 16-22 and 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sung et al US 6,335,118.
- Claims 16-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Landi et al US 6.586.533.
- The rejections under 35 USC 103 over Sung and Landi as set forth in the paper mailed 11/6/08 are deemed proper and are herein repeated.
- The newly amended and presented claims as well as the remarks filed in support thereof have been fully considered but have been found not persuasive.
- 6. Applicants argue that Sung is directed to an electrochemical material comprising a sulfurated hydrocarbon. It is alleged by applicant that the sulfurated material fails to meet the claimed requirement that the hydrocarbon material having a plurality of double bonds in the side chains. This is not persuasive. While it is acknowledged that the sulfur reacts with the double bonds so as to produce the sulfuration of the butadiene, the reaction is not seen to yield a product having 100% of the double bonds reacted. The patent teaches a sulfur content of 40 to 88 wt. %. Lower amounts of sulfur would result in a polymer having double bonds present. Further, chemical reactions rarely

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continue to 100% conversion. As such, it is reasonable to presume that there remains a plurality (greater than one) of double bonds in the side chains so as to fall within the scope of the claims.

- 7. With respect to the Landi patent, applicants argue that the claims have been amended to limit the carbonaceous to be electroconductive. It is argued that the silicon carbide is an insulating filler and not an electroconductive material. This is not persuasive. Conduction and insulation are properties of degree. This is to say that a filler is both conductive and insulating. A highly conductive filler has a low insulating property and an insulating filler has a low conducting property. While silicon carbide has an insulating property it has a low conducting property, but is "electroconductive" nonetheless.
- The rejections over Okamoto, Simonot and Nordsiek are withdrawn for reasons
 of record.
- The double patenting rejection is held in abeyance pending PTO review of the terminal disclaimer filed.

Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy whose telephone number is 571-272-1107. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter D. Mulcahy/ Primary Examiner, Art Unit 1796